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## PULASKI COUNTY

### (Pulaski County Water Service Area Map)

- Estimated 1999 population of 56,800--82% on public water
- Estimated 2020 population of 65,900--92% on public water
- 875 miles of water lines, with plans for 335 additional miles
- Estimated funding needs for public water 2000-2005--\$14,888,000
- Estimated funding needs for public water 2006-2020--\$4,458,000

Pulaski County had an estimated population of 56,807 (23,456 households) in 1999 with a projected population of 65,892 (29,575 households) in 2020. Public water is provided to about 82 percent of the county's residents. In areas of the county not served by public water, about 45 percent of the households rely on private domestic wells and 55 percent of the households rely on other sources. About 3,050 customers will be added to public water service through new line extensions in 2000-2020.

#### *Estimated Costs - Proposed Projects, 2000-2005*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
PULASKI								-
Science Hill	19.4	236	666				417	1,083
SE Water Association.	164	2,047	8,999				3,825	12,824
Eubank	31.1	165	643				338	981
Total	214.5	2,448	10,308				4,580	14,888

#### *Estimated Costs - Proposed Projects, 2006-2020*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
PULASKI								-
Science Hill	10.3	90	381					381
SE Water Asoc.	69.5	374	2,881					2,881
Eubank	36	122	1,080					1,080
Western Pulaski W/D	2.9	18	116					116
Total	118.7	604	4,458					4,458

### PUBLIC WATER SYSTEMS

Pulaski County has 16 public water systems: 13 community--3 municipal, Burnside Water Company, Science Hill Water Works, and Somerset Water Service; 4 water districts, Eubank Water District, Western Pulaski County Water District/Pleasant, Western Pulaski County Water District, Western Pulaski County Water District/Oak Hill; 6 water

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# WATER SERVICE AREAS

## PULASKI COUNTY

### Kentucky

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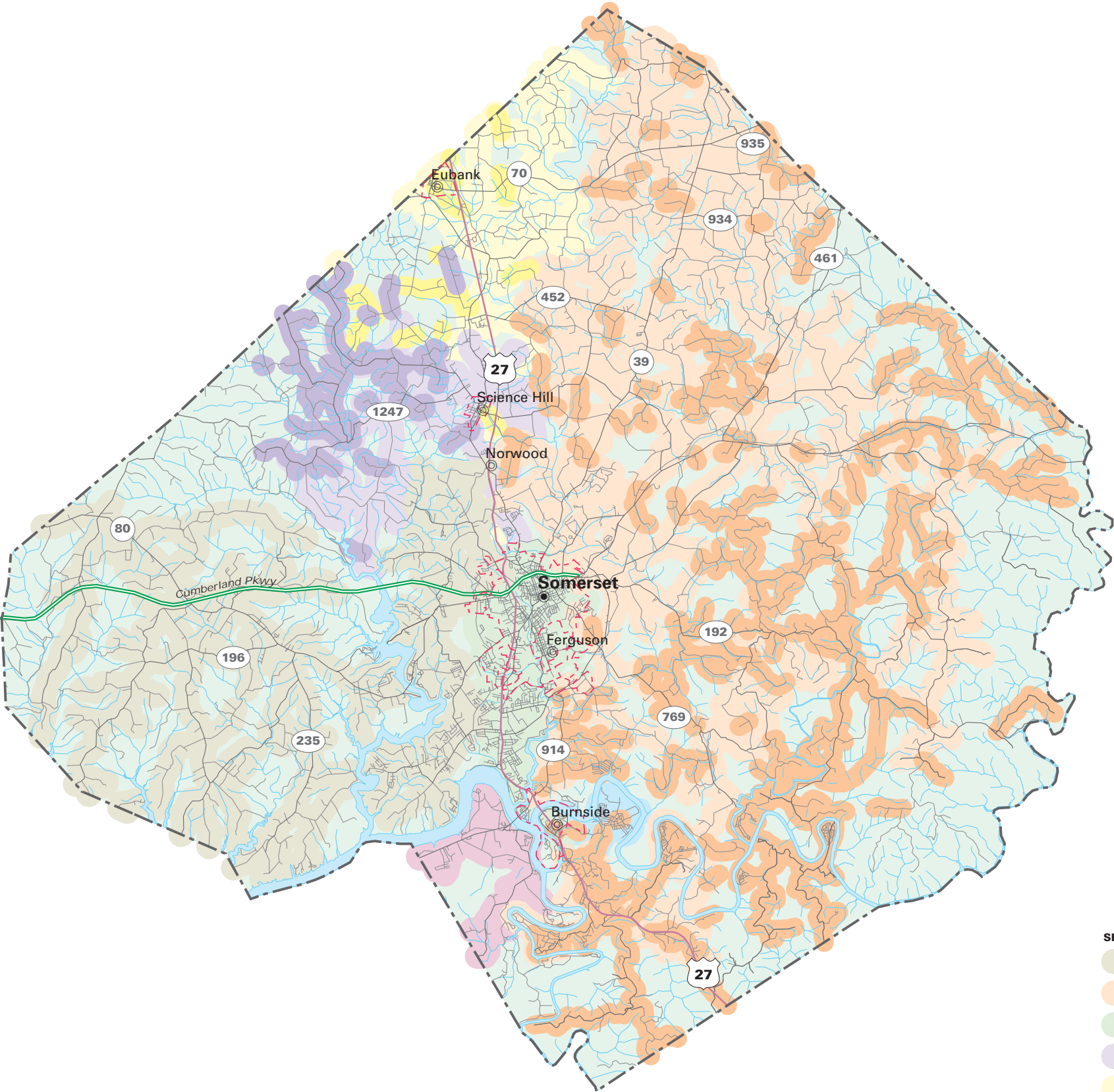
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WATER SERVICE STATUS BY OWNER		
EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		WESTERN PULASKI COUNTY WATER DISTRICT
		SOUTHEASTERN WATER ASSOCIATION/NELSON VAL
		SOMERSET WATER SERVICE
		SCIENCE HILL WATER WORKS
		EUBANK WATER DISTRICT
		BURNSIDE WATER COMPANY
		BRONSTON WATER ASSOCIATON INCORPORATED



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associations, Southeastern Water Association, Bronston Water Association, Inc., South Eastern Water Association/Nelson Valley, South Eastern Water Association/Tateville, South Eastern Water Association/Elihu Rush, Woodson Bend Property Owners Association- and 3 non-community systems.

**BRONSTON WATER ASSOCIATION INCORPORATED**

PWSID:..... 1000043  
System Type:..... COMMUNITY  
Owner Type:..... WATER ASSOCIATION  
Surface Source:  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD):..... 0.00  
Percent Daily Average Production:..... 0.00  
Total Tank Storage Capacity (gallons):..... 0.00  
Total Service Connections: ..... 1,180.00  
Number of Employees:..... 2.00  
Treatment Operator Class: .....2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons:..... 3.81  
O/M costs 1997:..... 217,847.00  
O/M costs per Service Connection: ..... 186.19  
Net Revenue 1997:..... 8,794.00  
Total Water Produced 1997 (gallons):..... 0.00  
Water Sold 1997 (gallons):..... 59,591,000.00  
Unaccounted-for Water 1997 (%): ..... 26.56

**BURNSIDE WATER COMPANY**

PWSID:..... 1000050  
System Type:..... COMMUNITY  
Owner Type:..... MUNICIPAL  
Surface Source:..... LAKE CUMBERLAND  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD):..... 0.32  
Percent Daily Average Production:..... 45.00  
Total Tank Storage Capacity (gallons):..... 200,000.00  
Total Service Connections: ..... 635.00  
Number of Employees:..... 3.00  
Treatment Operator Class: .....2D  
Distribution Operator Class:.....2A  
Customer Rate for 1,000 Gallons:..... Not available  
O/M costs 1997:..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997:..... Not available  
Total Water Produced 1997 (gallons):..... Not available  
Water Sold 1997 (gallons):..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

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**EUBANK MUNICIPAL WATER DISTRICT**

PWSID: ..... 1000124  
System Type:..... COMMUNITY  
Owner Type: ..... WATER DISTRICT  
Surface Source:  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD):..... 0.00  
Percent Daily Average Production:..... 0.00  
Total Tank Storage Capacity (gallons): ..... 75,000.00  
Total Service Connections: ..... 3,200.00  
Number of Employees:..... 4.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons: ..... Not available  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997 (gallons): ..... Not available  
Water Sold 1997 (gallons): ..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

**SOUTHEASTERN WATER ASSOCIATION/NELSON VAL**

PWSID: ..... 1000311  
System Type:..... COMMUNITY  
Owner Type: ..... WATER ASSOCIATION  
Surface Source:  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD):..... 0.00  
Percent Daily Average Production:..... 0.00  
Total Tank Storage Capacity (gallons): ..... 100,000.00  
Total Service Connections: ..... 0.00  
Number of Employees:..... 0.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons: ..... Not available  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997 (gallons): ..... Not available  
Water Sold 1997 (gallons): ..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

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**SCIENCE HILL WATER WORKS**

PWSID: ..... 1000362  
System Type:..... COMMUNITY  
Owner Type: ..... MUNICIPAL  
Surface Source:  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD):..... 0.00  
Percent Daily Average Production:..... 0.00  
Total Tank Storage Capacity (gallons): ..... 0.00  
Total Service Connections: ..... 1,180.00  
Number of Employees:..... 2.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons: ..... Not available  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997 (gallons): ..... Not available  
Water Sold 1997 (gallons): ..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

**WESTERN PULASKI COUNTY WATER DISTRICT**

PWSID: ..... 1000363  
System Type:..... COMMUNITY  
Owner Type: ..... WATER DISTRICT  
Surface Source:  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD):..... 0.00  
Percent Daily Average Production:..... 0.00  
Total Tank Storage Capacity (gallons): ..... 100,000.00  
Total Service Connections: ..... 0.00  
Number of Employees:..... 0.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons: ..... Not available  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997 (gallons): ..... Not available  
Water Sold 1997 (gallons): ..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

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**SOMERSET WATER SERVICE**

PWSID: ..... 1000403  
System Type: ..... COMMUNITY  
Owner Type: ..... MUNICIPAL  
Surface Source: ..... LAKE CUMBERLAND  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 7.50  
Percent Daily Average Production: ..... 83.00  
Total Tank Storage Capacity (gallons): ..... 0.00  
Total Service Connections: ..... 8,432.00  
Number of Employees: ..... 20.00  
Treatment Operator Class: ..... 3D  
Distribution Operator Class: ..... 4A  
Customer Rate for 1,000 Gallons: ..... Not available  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997 (gallons): ..... Not available  
Water Sold 1997 (gallons): ..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

**WOODSON BEND PROPERTY OWNERS ASSOCIATION**

PWSID: ..... 1000973  
System Type: ..... COMMUNITY  
Owner Type: ..... HOME OWNER ASSOCIATION  
Surface Source: ..... LAKE CUMBERLAND  
Purchase Source:  
Well Source:  
Sells Water to: .....  
Treatment Plant Capacity (MGD): ..... 0.14  
Percent Daily Average Production: ..... 39.00  
Total Tank Storage Capacity (Gallons): ..... Not available  
Total Service Connections: ..... 490.00  
Number of Employees: ..... Not available  
Treatment Operator Class: ..... 2D  
Distribution Operator Class: ..... 2A  
Customer Rate for 1,000 Gallons: ..... Not available  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997: ..... Not available  
Water Sold 1997: ..... Not available  
Unaccounted-for Water 1997: ..... Not available

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## OTHER SYSTEMS

### **LAKE CUMBERLAND RESORT #1**

Lake Cumberland Resort #1 is located in Pulaski County. The system serves a population of 40 and has 1 service connection. The private, non-transient, non-community system purchases water from Southeastern Water.

### **LAKE CUMBERLAND RESORT #2**

Lake Cumberland Resort #2 is located in Pulaski County. The system serves a population of 66 and has 20 service connections. The private, transient, non-community system has treatment capacity of gallons per day and the water source is wells.

### **LAKE CUMBERLAND RESORT #3**

Lake Cumberland Resort #3 is located in Pulaski County. The private, transient, non-community system serves a population of 25 and has 15 service connections.

## PRIVATE DOMESTIC SYSTEMS

About 10,000 residents of Pulaski County rely on private domestic water supplies: 4,500 on wells and 5,500 on other sources.

Limestone and siltstone are the prominent rock types found in the western two-thirds of Pulaski County. About three-fourth of the wells drilled in western Pulaski County yield enough water for a domestic supply with some yields greater than 50 gpm from wells from large solution openings in karst areas. In the low lying areas in western Pulaski County only a few wells yield enough water for a domestic supply except in a few lowland areas near Cumberland River where yields are sufficient for domestic supplies.

In the eastern third of the county, the geology changes to sandstone and shales. Less than half of the wells drilled in the eastern end of the county will produce enough water for a domestic supply. In low lying areas bordering streams very few wells yield adequate amounts of water for a domestic supply except in the limited area south of Burnside where most wells are adequate for a domestic supply, especially from wells that penetrate large solution channels within the limestone bedrock.

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